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Dec 1, 1999

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TITLE: Assembly of infusion pumps for intensive care of critically ill patients

INVENTOR: GERSTMANN, R; LOHMEIER, G ; SCHMID, G ; SCHIMID, G

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BRAUN MELSUNGEN AG B

BINT

PRIORITY-DATA: 1998DE-1023240 (May 25, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 960627 A2</u>	December 1, 1999	G	015	A61M005/168
SG 81280 A1	June 19, 2001		000	A61M005/168
DE 19823240 A1	December 2, 1999		000	A61M005/172
AU 9929073 A	December 2, 1999		000	A61M005/172
JP 11347118 A	December 21, 1999		014	A61M005/142
MX 9904752 A1	August 1, 2000		000	A61M005/172

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 960627A2	May 12, 1999	1999EP-0109491	
SG 81280A1	May 12, 1999	1999SG-0002424	
DE 19823240A1	May 25, 1998	1998DE-1023240	
AU 9929073A	May 17, 1999	1999AU-0029073	
JP 11347118A	May 21, 1999	1999JP-0141605	
MX 9904752A1	May 21, 1999	1999MX-0004752	

INT-CL (IPC): A61 M 1/00; A61 M 5/00; A61 M 5/142; A61 M 5/168; A61 M 5/172; G05 D 7/00

ABSTRACTED-PUB-NO: EP 960627A

BASIC-ABSTRACT:

NOVELTY - The assembly for the central control and/or monitoring of infusion pumps has defined positions to mount the infusion pumps (101A-101C;102A-102F), each with an interface for the data communications at the infusion pump connections. The central control (110) has a display to show the total condition of the infusion pumps, with the display layout matching the pump positions.

DETAILED DESCRIPTION - An interface for the energy supplies is also at the pump mounting positions, linked to a common energy supply at the central control. The

infusion pumps and the central control also have an emergency energy supply, to ensure continuing operation in the event of a power failure. The central control and the infusion pump assembly are in separate units which are joined together, or are separated. The control sub-unit gives an automatic control function for the infusion pumps and/or the communication link between the pumps and the superior unit. On the insertion of the infusion pumps into the mounting and carrier system, the mechanical lock also gives the interface link for data communication with the central control. When an infusion pump is removed, the disconnection is detected and is further processed independently in a given function or the previous condition is maintained, or it is transferred into a safe condition. The mounting system for the infusion pumps can also be fitted with further modules to register physiological patient parameters, linked to the central control. The central control is also linked to other units within the patient's environment for data exchange, or it is connected to another relatively non-mobile medical system. The control has a data input, for the insertion of parameters to be used for the control of the infusion pumps. The parameters can include the concentration of a physiologically active substance within the infused fluid and/or the patient's body weight and/or a required concentration of the active substance in the patient's blood. One or more monitors measure physiological parameters, which can be used to affect the infusions. The central control and/or monitor has an index of medications, inserted manually or taken from another assembly in relation to patient parameters, to be stored. They can be altered manually. The condition of each infusion pump is displayed at the central unit, and especially alarms.

USE - The system is for the infusion of medications to patients who are critically ill and require intensive care. It is also for use in anesthetics.

ADVANTAGE - The central control sets the operation of a number of infusion pumps, for different medications, in a simple and cost-effective assembly, with a high flexibility.

DESCRIPTION OF DRAWING(S) - The drawing shows an assembly of infusion pumps.

infusion pumps 101A-101C;102A-102F

central control and/or monitor unit 110

CHOSEN-DRAWING: Dwg.1/6

TITLE-TERMS: ASSEMBLE INFUSION PUMP INTENSE CARE CRITICAL ILL PATIENT

DERWENT-CLASS: B07 P34 S05

CPI-CODES: B11-C04;

EPI-CODES: S05-J01A; S05-J02;

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